

## GENERAL

The latrine with potable water provides restroom facilities for men and women. The latrine will accommodate a training unit of up to 150 men and 35 women based on OSHA standards. The facility has an area of 51 square meters (550 square feet). Depending on the range type and the number of soldiers using the facility at a time, the number of fixtures can fluctuate.

#### SITE ADAPTATION

This standard definitive design should be adapted to local conditions such as climate, available construction materials and techniques, topography, seismic zone and the existing character of surrounding buildings. These factors may affect plans, elevations and building systems. The building foundation must be designed based on the results of a geotechnical

## REFERENCE CRITERIA

The design and construction must comply with applicable codes and standards including: technical instruction T1800-01, "Design Criteria": Department of the Army regulations, technical manuals, handbooks, standards, and specifications.

## FUNCTIONAL REQUIREMENTS

All dimensions are in millimeters unless otherwise labeled. A mop sink and shelves are provided in the storage room. Windows are bottom hinged inswinging to meet functional requirements providing natural lighting and ventilation. Windows have forced entry resistant metal frames and are provided with insect screens. Provide polycarbonate security translucent glazing in windows. Gutters, downspouts and splash blocks should be provided where required by climatic conditions. Covered entries and ice guards may be necessary in northern climates. Floors should be sealed for ease of cleaning. Ceilings should be finished.

The latrine is accessed only by able-bodied personnel and does not require ADA compliance for the handicapped unless dictated by local criteria.

## MECHANICAL

The mechanical equipment shall be sized in accordance with site requirements, local weather design criteria and the material of building construction. Provide sufficient exhaust fans and louvers for fresh air requirements. Switch the exhaust fans to come on/off when the lights are turned on/off. Route water supply piping under the slob and ensure all pipe work is pressure tested prior to the slob being poured. The latrine is heated for freeze protection.

The latrine shall be served by 120/240V, 1 phase, 3-wire secondary power. Rigid Steel conduit shall extend a minimum of 1524mm (5') outside the building for power circuits entering and leaving the building. Voltage drop shall comply with standards in NEC and Army technical manuals. Grounding will be installed in accordance with NFPA 70, the NEC, and other applicable standards. The panel board shall be 120/240V single phase, mounted in an accessible location. Receptacles shall be GFCI, 120V, 20A duplex mounted 305 mm (12') above the sinks. Illumination levels will be designed in accordance with IES. Interior lighting shall consist of fluorescent lamps at a level of 20 foot-candles. Each room shall be provided with separate switching. Exterior lighting shall be provided with separate switching located near points of egress. egress.

Per NFPA 101 annex A, exit signs are not required for the latrine.

Lightning protection is not required for this building.

Fire protection is not required per fire codes for this building. Consult local Fire Marshall for compliance with local laws.

# ABBREVIATIONS

CMU - concrete masonry unit EF - exhaust fan FD - floor drain FPHB - freeze poof hose bib LVR - louver UH - unit heater

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MINING L.

reference

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WATER CLOSETS

GRAPHIC SCALES

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